

Listing of Claims:

1. (Canceled)
2. (Currently Amended) The boiling water reactor nuclear power plant according to claim 4517, wherein said pressure suppression pool being connected to said nuclear reactor pressure vessel by means of gravity-based piping through which the cooling water drops by gravity.
3. (Currently Amended) The boiling water reactor nuclear power plant according to claim 4517, wherein a piping and nozzles connected to said nuclear reactor pressure vessel are positioned above said reactor core.
- B 4. (Currently Amended) The boiling water reactor nuclear power plant according to claim 4517, wherein a valve operable to open ~~which can be opened~~ to an exterior of said reactor core shroud is provided at a position above said fuel assembly.
5. (Currently Amended) The boiling water reactor nuclear power plant according to claim 4517, wherein the multiple steel plates are mutually opposing in a separated fashion through the ribs.
6. (Currently Amended) The boiling water reactor nuclear power plant according to claim 4517, wherein said pressure suppression pool and a lower portion of the dry well are connected by means of a plurality of emergency opening passages at different elevational positions.
7. (Previously Amended) The boiling water reactor nuclear power plant according to claim 5, wherein a normal use cooling system is connected to the inner hollow structure of the reactor containment vessel wall.
8. (Currently Amended) The boiling water reactor nuclear power plant according to claim 4517, wherein a normally-closed water discharge pipe is led

from said pressure suppression pool into said dry well at the base region of said nuclear reactor pressure vessel, and said water discharge pipe is normally closed by a sealing device, the sealing device capable of being released in case of emergency so as to open said water discharge pipe.

9. (Currently Amended) The boiling water reactor nuclear power plant according to claim ~~45~~17, wherein a heat pipe capable of exchanging heat is provided at a portion between said pressure suppression pool and the lower region of said dry well.

10. (Currently Amended) The boiling water reactor nuclear power plant according to claim ~~45~~17, wherein a guard pipe is provided so as to extend from said dry well section to said pressure suppression pool, and valves and piping led from said nuclear reactor pressure vessel are accommodated in said guard pipe.

11. (Currently Amended) The boiling water reactor nuclear power plant according to claim ~~45~~17, wherein a turbine system is installed on an upper portion of the reactor building.

12. (Currently Amended) The boiling water reactor nuclear power plant according to claim ~~45~~17, wherein an extraction space capable of accommodating said nuclear reactor pressure vessel is provided above the nuclear reactor pressure vessel in the reactor building.

13. (Currently Amended) The boiling water reactor nuclear power plant according to claim ~~45~~17, wherein said reactor building is positioned on a foundation base having an anti-seismic structure.

14. (Original) A method of constructing a boiling water reactor nuclear power plant comprising the steps of:

previously making the boiling water reactor nuclear power plant as a building module, which comprises a reactor building, a pressure containment vessel

positioned in said reactor building, a drywell comprising a space inside said pressure containment vessel, a pressure suppression pool provided inside said pressure containment vessel, a nuclear reactor pressure vessel contained by said pressure containment vessel, a reactor core having fuel assemblies supported by a reactor core support plate and an upper grid plate provided in an inner base portion of said nuclear reactor pressure vessel, a reactor core shroud surrounding said reactor core and said upper grid plate, control rod guide tubes positioned in said reactor core shroud and over said upper grid plate, control rods inserted in said control rod guide tubes, and control rod drive mechanisms which drive the insertion and withdrawal of said control rods from above said reactor core, the control rod drive mechanisms being provided above said control guide tubes and inside said reactor core shroud;

transporting said building module to a construction site for the nuclear power plant; and

installing said building module on the construction site there by to construct the boiling water reactor nuclear power plant.

15. (Cancelled)

16. (Currently Amended) A reactor containment vessel for use with a boiling water nuclear reactor having a reactor containment vessel cooling system providing cooling water, comprising:

an inner wall made from multiple steel plates defining an inside of the reactor containment vessel;

an outer wall made from multiple steel plates, wherein the inner wall and the outer wall are positioned to form a double-wall structure forming an inner hollow structure over at least a portion of the reactor containment vessel;

a plurality of ribs provided within the inner hollow structure and coupled to either or both of the inner wall and the outer wall and;

a fluidic connection to the reactor containment vessel cooling system configured so that cooling water from the reactor containment vessel cooling system ~~can flow~~s and ~~circulates~~s in the inner hollow structure to ~~effectively~~effectively cool a portion of the inside of the reactor containment vessel.

17. (New) A boiling water reactor nuclear power plant, in which a cooling water is circulated, comprising, in an installed state thereof:

a reactor building;

a reactor containment vessel positioned in the reactor building; said reactor containment vessel having dual cylindrical structure having inner and outer wall sections;

a reactor pressure vessel disposed inside the containment vessel;

a dry well defined, inside the reactor containment vessel, by the inner wall section thereof;

a pressure suppression pool provided inside the reactor containment vessel and outside the dry well between the inner and outer wall sections of the reactor containment vessel;

31  
a containment vessel cooling system pool disposed above the suppression pool;

a reactor core mounted with fuel assemblies supported by a reactor core support plate and an upper grid plate provided in an inner base portion of the reactor pressure vessel, said reactor core being disposed below said pressure suppression pool;

a reactor core shroud surrounding the reactor core and the upper grid plate;

control rod guide tubes positioned in the reactor core shroud and over the upper grid plate;

control rods inserted in the control rod guide tubes; and

control rod drive mechanisms operative for inserting and withdrawing the control rods from an upper portion of the reactor core, said control rod drive mechanisms being arranged at a portion above the control rod guide tubes and inside the reactor core shroud,

said inner and outer wall sections of the reactor containment plates having an inner hollow structure, the double-wall structure being communicated with the containment vessel cooling system pool, wherein said

B1  
Concluded

cooling water therein flows and circulates in the hollow portion of the double-wall structure to cool the dry well, the double-wall structure being provided with a plurality of ribs.

---